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TECHNOLOGY GROUP

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Find the *WinSoft WISE G2100* at our website: *Click HERE*

U.S. Patent pending

WISE™ - *WinSoft Instrument System Emulator*

The innovative WISE™ technology allows you to easily replace obsolete instruments, in an automated Test or Data acquisition system, *without* changes to the software and regardless of the programming language (i.e. ATLAS, HP-BASIC, Assembly, etc.)

Test & Measurement instruments and devices installed in legacy systems face end-of-life, lack of replacement parts and/or obsolescence. On going maintenance and calibration causes countless delays in projects and horrendous waste of resources. Until now, substitution of instruments implied modifications and re-validation of the test and measurement software application. In most cases, changes to the software is impractical or prohibitive due to budget and schedule impact (i.e. changes to hundreds of TPSs, re-validation of the software, availability of programmers who are familiar with long forgotten languages, etc.)

Whether it is a COTS or Customized hardware replacement, the WISE™ technology provides an economical **life extension** to the Test and Measurement system, **without** the impact associated with **software changes** (i.e. compliance with MIL STD, FAA, NASA, etc.).

Product Benefits

Cost And Schedule

Replacement of Test and Measurement instruments often implies a change of software, TPSs, drivers and communication protocols to accommodate for different functionality of the new hardware. With the WISE™ technology **no** changes are required.
WISE™ ensures MINIMAL impact on your **budget** and **schedule**. You can save hundreds to millions of dollars in a short time!

Expansion

New revision of UUTs may require development of new TPSs. Writing new TPSs, while utilizing state of the art software tools such as .NET, C++ and LabVIEW™, is impossible since these tools can not operate under legacy systems. With WISE™ technology OLD and NEW TPSs co-exist in the same system.

Incremental Upgrade

With WISE™ technology you are **not required** to replace the entire Test and Measurement system. Start with the most crucial instruments and use the incremental approach to fit into your budget. Furthermore the WISE™ technology enables you to **reuse** each unit as a different instrument via downloadable code (Internet ready) while preserving your **wise** investment.

On-Line Worldwide Support

WISE™ Internet-ready capabilities enable global troubleshooting and support.



Three WISE units in desktop configuration

Product Summary

- Preservation of Legacy Software, Drivers and TPSs
- Transparent and modular Hardware replacement or upgrade path
- Replacement of old controller or computers with modern PCs (*)
- Graphical presentation of replaced indicators (LEDs, meters, etc.)
- Support of modern software Development Tools and Test Executives
- Real Time translation of User-Define-Protocol to User-Define-Protocol
- Modular architecture enables WISE™ units to emulate different types of instruments
- Open architecture enables replacement of one/several old instrument(s) with several/one new instrument(s)



Three WISE units in Rack-Mount configuration

(*) Supported systems include HP1000 and PDP -11

WinSoft® The WISE™ Decision

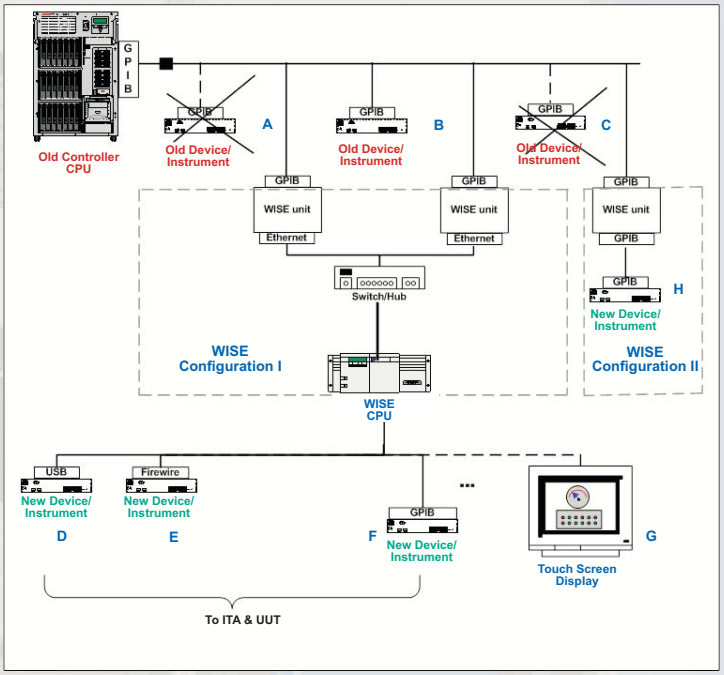
Technical Description

WISE™ emulates an existing instrument or device connected to a computer or controller, translates the command issued to the original instrument (within the same or a different protocol and electrical interface) and replies in a known way to the computer/controller. Quick adjustment of GPIB and TCP/IP configuration is available via front panels buttons.

Example

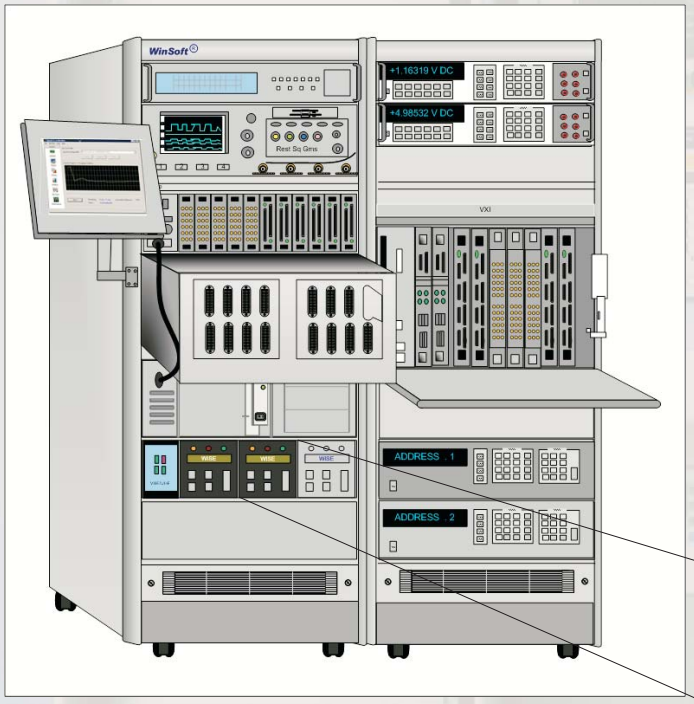
WISE configuration I - Old devices A & C (GPIB) are replaced with D & E (USB & Firewire). The Old Controller/CPU communicates with D & E, 'thinking' that it is A & C. The indicators of device A are replaced with graphical display - screen G. New TPSs are executed on WISE CPU and communicate with NEW device F among other devices.

WISE configuration II - presents GPIB to GPIB translation for new instrument H.



WISE Block Diagram

Technical Specifications





Models/ Part No.

- GT100 - GPIB to TCP/IP Bridge..... (Cassette Module)
- G² 100 - GPIB to GPIB Bridge.....(Cassette Module)
- GR100 - GPIB to Serial Com. Bridge.....(Cassette Module)

- EM100 - Software Emulation Package..(Cassette Module/ WISE CPU)

- RM100 - Rack-Mounted Chassis.....(Up to 3 Cassette Modules)
- DT100 - Desk-Top Chassis.....(Up to 3 Cassette Modules)
- TS100 - Built-In Touch Screen.....(RM100 and DT100 only)
- SW100 - Programmable Switch.....(Switch between new/old TPSs)

- PX1000 - PXI Slot 0 PC/CPU
- PC1000 - Rack Mount PC - CPU
- LC1000 - KVM + Flat Screen Display

Translation Protocols

GPIB, TCP/IP, RS-232, RS-422/488, MIL STD 1553, USB, FireWire, 802.11
Please contact us for custom protocols.

The WISE Table for a COMPLETE Test Station Upgrade

Description	Upgrade/ Replacement via Existing Technology	Upgrade/ Replacement via WISE™ Technology
Preservation of Software (Test Executive, Drivers, TPSs)	NO	YES
Elimination of Software Re-Validation process	NO	YES
Capability to run New TPSs alongside old TPS on the existing T&M system	NO	YES
Seamless migration from existing computer to a regular PC	NO	YES
Average Cost for a *Complete* Test Station	$250K - $4,000K Per System	$50K - $250K Per System
Schedule	6 - 8 Months	1 - 2 Months

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